

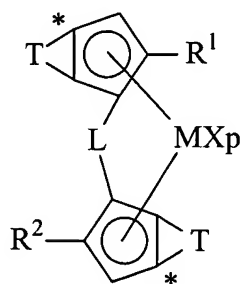
## ATTACHMENT A

Claims 1 - 17: (Cancelled)

18. (New) A multistage process comprising the following steps:

- polymerizing a propylene resin optionally comprising one or more monomers selected from ethylene and alpha olefins of formula  $\text{CH}_2=\text{CHT}^1$ , wherein  $\text{T}^1$  is a  $\text{C}_2\text{-C}_{20}$  alkyl radical in presence of a catalyst system, the catalyst system supported on a porous organic polymer, comprising:

- i) at least one metallocene compound of formula (I):



(I)

wherein M is a transition metal selected from those belonging to group 3, 4, 5, 6 or to a lanthanide or actinide group in the Periodic Table of the Elements;

p is an integer from 0 to 3, wherein p is equal to a formal oxidation state of M minus 2;

X, same or different, is hydrogen, a halogen, or R, OR,  $\text{OSO}_2\text{CF}_3$ ,  $\text{OCOR}$ ,  $\text{SR}$ ,  $\text{NR}_2$  or  $\text{PR}_2$ , wherein R is a linear or branched, saturated or unsaturated  $\text{C}_1\text{-C}_{20}$  alkyl,  $\text{C}_3\text{-C}_{20}$  cycloalkyl,  $\text{C}_6\text{-C}_{20}$  aryl,  $\text{C}_7\text{-C}_{20}$  alkylaryl or  $\text{C}_7\text{-C}_{20}$  arylalkyl radical, optionally

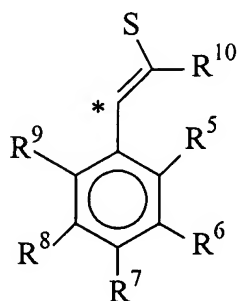
containing heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements; or two X can optionally form a substituted or unsubstituted butadienyl radical or OR'O, wherein R' is a divalent radical selected from C<sub>1</sub>-C<sub>20</sub> alkylidene, C<sub>6</sub>-C<sub>40</sub> arylidene, C<sub>7</sub>-C<sub>40</sub> alkylarylidene and C<sub>7</sub>-C<sub>40</sub> arylalkylidene radicals;

L is a divalent bridging group selected from C<sub>1</sub>-C<sub>20</sub> alkylidene, C<sub>3</sub>-C<sub>20</sub> cycloalkylidene, C<sub>6</sub>-C<sub>20</sub> arylidene, C<sub>7</sub>-C<sub>20</sub> alkylarylidene, or C<sub>7</sub>-C<sub>20</sub> arylalkylidene radicals optionally containing heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements, and silylidene radical containing up to 5 silicon atoms;

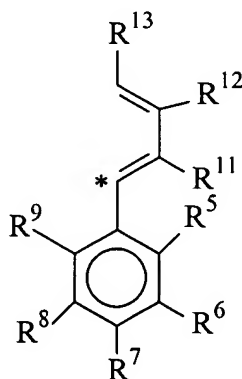
R<sup>1</sup>, is a linear or branched, saturated or unsaturated C<sub>1</sub>-C<sub>40</sub>-alkyl radical, optionally containing one or more heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements;

R<sup>2</sup> is a branched C<sub>1</sub>-C<sub>40</sub>-alkyl radical;

T, equal to or different from each other, is a moiety of formula (IIIa) or (IIIb):



(IIIa)



(IIIb)

wherein:

the atom marked with symbol \* is bonded to the atom marked with the same symbol in the metallocene compound of formula (I);

$R^5$ ,  $R^6$ ,  $R^7$ ,  $R^8$  and  $R^9$ , equal to or different from each other, are hydrogen or a linear or branched, saturated or unsaturated  $C_1$ - $C_{40}$ -alkyl,  $C_3$ - $C_{40}$ -cycloalkyl,  $C_6$ - $C_{40}$ -aryl,  $C_7$ - $C_{40}$ -alkylaryl, or  $C_7$ - $C_{40}$ -arylalkyl radicals, optionally containing one or more heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements; or two or more  $R^5$ ,  $R^6$ ,  $R^7$ ,  $R^8$  and  $R^9$  can join to form a 4-7 membered saturated or unsaturated ring, said ring can bear at least one  $C_1$ - $C_{20}$  alkyl substituent;

$R^{10}$  is hydrogen or a linear or branched, saturated or unsaturated  $C_1$ - $C_{20}$ -alkyl,  $C_3$ - $C_{20}$ -cycloalkyl,  $C_6$ - $C_{20}$ -aryl,  $C_7$ - $C_{20}$ -alkylaryl, or  $C_7$ - $C_{20}$ -arylalkyl radical, optionally containing one or more heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements;

$R^{11}$ ,  $R^{12}$  and  $R^{13}$ , equal to or different from each other, are hydrogen or a linear or branched, saturated or unsaturated  $C_1$ - $C_{20}$ -alkyl,  $C_3$ - $C_{20}$ -cycloalkyl,  $C_6$ - $C_{20}$ -aryl,  $C_7$ - $C_{20}$ -alkylaryl, or  $C_7$ - $C_{20}$ -arylalkyl radicals, optionally containing one or more heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements; or two or more  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  can join to form a 4-7 membered saturated or unsaturated ring, said ring can bear at least one  $C_1$ - $C_{20}$  alkyl substituent;

ii) an alumoxane or a compound capable of forming an alkyl metallocene cation;

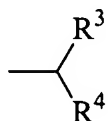
- contacting under polymerization conditions in a gas phase, ethylene with one or more alpha olefins of formula  $\text{CH}_2=\text{CHT}^2$ , wherein  $\text{T}^2$  is a  $\text{C}_1\text{-C}_{20}$  alkyl radical, and optionally with a non-conjugated diene, in presence of the propylene resin.

19. (New) The multistage process according to claim 18, wherein the catalyst system further comprises iii) an organo aluminum compound.

20. (New) The multistage process according to claim 18, wherein the process of polymerizing a propylene resin is carried out in presence of an additional organo aluminum compound.

21. (New) The multistage process according to claim 18, wherein M is titanium, zirconium or hafnium; X is hydrogen, a halogen, or R, wherein R is a linear or branched, saturated or unsaturated  $\text{C}_1\text{-C}_{20}$  alkyl,  $\text{C}_3\text{-C}_{20}$  cycloalkyl,  $\text{C}_6\text{-C}_{20}$  aryl,  $\text{C}_7\text{-C}_{20}$  alkylaryl or  $\text{C}_7\text{-C}_{20}$  arylalkyl radical, optionally containing heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements; and L is selected from  $\text{Si}(\text{Me})_2$ ,  $\text{SiPh}_2$ ,  $\text{SiPhMe}$ ,  $\text{SiMe}(\text{SiMe}_3)$ ,  $\text{CH}_2$ ,  $(\text{CH}_2)_2$ ,  $(\text{CH}_2)_3$  and  $\text{C}(\text{CH}_3)_2$ .

22. (New) The multistage process according to claim 18, wherein  $\text{R}^1$  is a methyl or ethyl radical;  $\text{R}^2$  is a group of formula (II):



(II)

wherein  $R^3$  and  $R^4$ , equal to or different from each other, are linear or branched, saturated or unsaturated  $C_1$ - $C_{10}$ -alkyl radicals optionally containing one or more heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements; and  $R^{10}$  is a hydrogen atom or a linear or branched, saturated  $C_1$ - $C_{20}$ -alkyl radical.

23. (New) The multistage process according to claim 18, wherein  $R^5$ ,  $R^6$ ,  $R^8$  and  $R^9$ , are hydrogen, and  $R^7$  is a group of formula  $-C(R^{14})_3$ , wherein  $R^{14}$ , equal to or different from each other, are a linear or branched, saturated or unsaturated  $C_1$ - $C_{10}$ -alkyl,  $C_3$ - $C_{10}$ -cycloalkyl,  $C_6$ - $C_{10}$ -aryl,  $C_7$ - $C_{10}$ -alkylaryl, or  $C_7$ - $C_{10}$ -arylalkyl radicals, optionally containing one or more heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements.

24. (New) The multistage process according to claim 23, wherein T have formula (IIIb).

25. (New) The multistage process according to claim 24, wherein one T  $R^{12}$  is a  $C_1$ - $C_{20}$  alkyl radical, and in the other T  $R^{12}$  is hydrogen.

26. (New) The multistage process according to claim 23, wherein one T has formula (IIIa), and one T has formula (IIIb).

27. (New) The multistage process according to claim 23, wherein T have formula (IIIb), and  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  are hydrogen.

28. (New) The multistage process according to claim 23, wherein the organic porous polymer has pores having a diameter up to  $10\text{ }\mu\text{m}$  ( $100000\text{ }\text{\AA}$ ) and a porosity higher than  $0.1\text{ cc/g}$ .

29. (New) The multistage process according to claim 28, wherein the organic porous polymer has pores having a diameter between  $0.02\text{ }\mu\text{m}$  ( $200\text{ }\text{\AA}$ ) and  $10\text{ }\mu\text{m}$  ( $100000\text{ }\text{\AA}$ ).

30. (New) The multistage process according to claim 29, wherein at least 30% of the total porosity of the organic porous polymer is comprised of pores having a diameter between  $0.1\text{ }\mu\text{m}$  ( $1000\text{ }\text{\AA}$ ) and  $2\text{ }\mu\text{m}$  ( $20000\text{ }\text{\AA}$ ).

31. (New) The multistage process according to claim 18, wherein the propylene resin comprises from 5% to 90% by weight of a propylene homopolymer or a propylene copolymer comprising up to 20% by mol of one or more alpha olefins of formula  $\text{CH}_2=\text{CHT}^1$ , wherein  $\text{T}^1$  is a  $\text{C}_2\text{-C}_{20}$  alkyl radical, and from 10 to 95% by weight, of an ethylene copolymer comprising from 5% to 90% by mol of one or more alpha olefins of formula  $\text{CH}_2=\text{CHT}^2$ , wherein  $\text{T}^2$  is a  $\text{C}_1\text{-C}_{20}$  alkyl radical.

32. (New) The multistage process according to claim 31, wherein the ethylene copolymer comprises up to 20% by mol of a non conjugated diene.

33. (New) The multistage process according to claim 31, wherein the propylene resin is a propylene homopolymer.

34. (New) The multistage process according to claim 31, wherein the alpha olefins are selected from propylene and 1-butene.

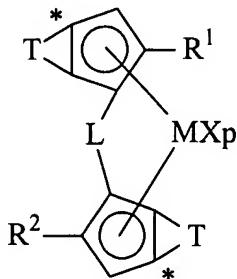
35. (New) A propylene polymer composition comprising:

- a) 5% to 90% by weight of a propylene homopolymer or a propylene copolymer containing up to 20% by mol of derived units of one or more alpha olefins of formula  $\text{CH}_2=\text{CHT}^1$  wherein  $\text{T}^1$  is a  $\text{C}_2\text{-C}_{20}$  alkyl radical; the propylene homopolymer or propylene copolymer having isotactic pentads (mmmm) higher than 90%;
- b) from 10 to 95% by weight of an ethylene copolymer containing from 5% to 90% by mol of one or more alpha olefins of formula  $\text{CH}_2=\text{CHT}^2$ , wherein  $\text{T}^2$  is a  $\text{C}_1\text{-C}_{20}$  alkyl radical;

wherein the propylene polymer composition has a flowability index equal to or lower than 2, and the propylene polymer composition is produced by the following steps:

- polymerizing a propylene resin optionally comprising one or more monomers selected from ethylene and alpha olefins of formula  $\text{CH}_2=\text{CHT}^1$ , wherein  $\text{T}^1$  is a  $\text{C}_2\text{-C}_{20}$  alkyl radical in presence of a catalyst system, the catalyst system supported on a porous organic polymer, comprising:

- ii) at least one metallocene compound of formula (I):



(I)

wherein M is a transition metal selected from those belonging to group 3, 4, 5, 6 or to a lanthanide or actinide group in the Periodic Table of the Elements;

p is an integer from 0 to 3, wherein p is equal to a formal oxidation state of M minus 2;

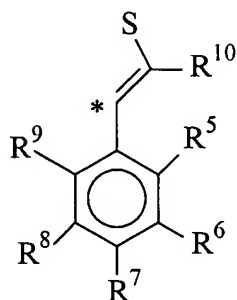
X, same or different, is hydrogen, a halogen, or R, OR,  $\text{OSO}_2\text{CF}_3$ ,  $\text{OCOR}$ , SR,  $\text{NR}_2$  or  $\text{PR}_2$ , wherein R is a linear or branched, saturated or unsaturated  $\text{C}_1\text{-C}_{20}$  alkyl,  $\text{C}_3\text{-C}_{20}$  cycloalkyl,  $\text{C}_6\text{-C}_{20}$  aryl,  $\text{C}_7\text{-C}_{20}$  alkylaryl or  $\text{C}_7\text{-C}_{20}$  arylalkyl radical, optionally containing heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements; or two X can optionally form a substituted or unsubstituted butadienyl radical or  $\text{OR}'\text{O}$ , wherein  $\text{R}'$  is a divalent radical selected from  $\text{C}_1\text{-C}_{20}$  alkylidene,  $\text{C}_6\text{-C}_{40}$  arylidene,  $\text{C}_7\text{-C}_{40}$  alkylarylidene and  $\text{C}_7\text{-C}_{40}$  arylalkylidene radicals;

L is a divalent bridging group selected from  $\text{C}_1\text{-C}_{20}$  alkylidene,  $\text{C}_3\text{-C}_{20}$  cycloalkylidene,  $\text{C}_6\text{-C}_{20}$  arylidene,  $\text{C}_7\text{-C}_{20}$  alkylarylidene, or  $\text{C}_7\text{-C}_{20}$  arylalkylidene radicals optionally containing heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements, and silylidene radical containing up to 5 silicon atoms;

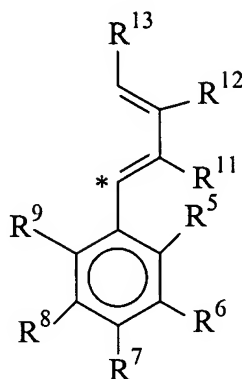
$\text{R}^1$ , is a linear or branched, saturated or unsaturated  $\text{C}_1\text{-C}_{40}$ -alkyl radical, optionally containing one or more heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements;  $\text{R}^2$  is a branched  $\text{C}_1\text{-C}_{40}$ -alkyl radical;



T, equal to or different from each other, is a moiety of formula (IIIa) or (IIIb):



(IIIa)



(IIIb)

wherein:

the atom marked with symbol \* is bonded to the atom marked with the same symbol in the metallocene compound of formula (I);

$R^5$ ,  $R^6$ ,  $R^7$ ,  $R^8$  and  $R^9$ , equal to or different from each other, are hydrogen or a linear or branched, saturated or unsaturated  $C_1$ - $C_{40}$ -alkyl,  $C_3$ - $C_{40}$ -cycloalkyl,  $C_6$ - $C_{40}$ -aryl,  $C_7$ - $C_{40}$ -alkylaryl, or  $C_7$ - $C_{40}$ -arylalkyl radicals, optionally containing one or more heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements; or two or more  $R^5$ ,  $R^6$ ,  $R^7$ ,  $R^8$  and  $R^9$  can join to form a 4-7 membered saturated or unsaturated ring, said ring can bear at least one  $C_1$ - $C_{20}$  alkyl substituent;

$R^{10}$  is hydrogen or a linear or branched, saturated or unsaturated  $C_1$ - $C_{20}$ -alkyl,  $C_3$ - $C_{20}$ -cycloalkyl,  $C_6$ - $C_{20}$ -aryl,  $C_7$ - $C_{20}$ -alkylaryl, or  $C_7$ - $C_{20}$ -arylalkyl radical, optionally containing one or more heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements;

$R^{11}$ ,  $R^{12}$  and  $R^{13}$ , equal to or different from each other, are hydrogen or a linear or branched, saturated or unsaturated  $C_1$ - $C_{20}$ -alkyl,  $C_3$ - $C_{20}$ -cycloalkyl,  $C_6$ - $C_{20}$ -aryl,  $C_7$ - $C_{20}$ -alkylaryl, or  $C_7$ - $C_{20}$ -arylalkyl radicals, optionally containing one or more heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements; or two or more  $R^{11}$ ,  $R^{12}$  and  $R^{13}$  can join to form a 4-7 membered saturated or unsaturated ring, said ring can bear at least one  $C_1$ - $C_{20}$  alkyl substituent;

ii) an alumoxane or a compound capable of forming an alkyl metallocene cation;

- contacting under polymerization conditions in a gas phase, ethylene with one or more alpha olefins of formula  $CH_2=CHT^2$ , wherein  $T^2$  is a  $C_1$ - $C_{20}$  alkyl radical, and optionally with a non-conjugated diene, in presence of the propylene resin.